

GENUINE
RUBEROID
BONDED
BUILT-UP
ROOFS

Asbestos



Asphalt

CONTINENTAL
ROOFING MILLS

RUBEROID
MILLS

SAFEPACK
MILLS

H. F. WATSON
MILLS

→ Divisions of ←

The RUBEROID Co.

Offices: New York - Chicago - Boston (Millis) - Erie - Baltimore - Mobile

Coal Tar,
Pitch and
Felt

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GENUINE RUBEROID BONDED BUILT-UP ROOFS

Asbestos—Coal Tar Pitch and Felt—Asphalt

Through the association of four great roofing companies, THE RUBEROID Co., with over 38 years of experience in manufacturing quality roofing products, is now in a position to supply Ruberoid Bonded Built-up Roofs in all of the popular types, Asbestos, Coal Tar Pitch and Felt, and Asphalt.

The materials entering into the construction of all of these types of built-up roofs are produced in the factories of THE RUBEROID Co., under formulæ developed by Ruberoid engineers as a result of their many years' experience in manufacturing quality roofing products.

Embraced in these three types of built-up roofs, are specifications supplying roofs to meet the kind of construction any condition may impose.

Ruberoid Bonded Built-up Roofs provide the architect, builder and owner a guarantee, both as to workmanship and material, for 10, 15 or 20 years, according to the specifications used.

These roofs are applied only by approved roofing contractors, and the guarantee is backed by a National Surety Bond.

Every architect has knowledge as to the type of roof best adapted to local climatic conditions, building construction, etc. Realizing this, THE RUBEROID Co. is impartial. They supply them all.

Tabulated below is a chart showing the specifications most generally in use for various types of roofs—the guarantees applying and other necessary information.

CHART OF RUBEROID BONDED ROOFS, SPECIFICATIONS AND WEIGHTS

Roofing Specifications									Surfaces to be roofed		
Specification number	Guaranty bond, term of years	Underwriters' classification	Maximum slope inches per foot	Number of plies—membrane	Membrane material	Weight in pounds of plies of membrane per 100 sq. ft.	Cementing material	Finished surface material	Board sheathing	Precast gypsum blocks	Poured concrete Poured gypsum Precast concrete tile Book tile Steel decks
100	10	B	6	3	Asphalt felt Asbestos felt	1-30 2-15	Bonded asphalt	Bonded asphalt	×		
101	10	A	6	3	Asphalt felt Asbestos felt	1-30 2-15	Bonded asphalt	Bonded asphalt		×	×
150	15	A	6	3	Asbestos felt	1-60 2-15	Bonded asphalt	Bonded asphalt	×		
151	15	A	2	4	Tarred felt	4-15	Coal tar pitch	Gravel or slag	×	×	
152	15	A	1	3	Tarred felt	3-15	Coal tar pitch	Gravel or slag			×
153	15	A	4	4	Asphalt felt	4-15	Asphalt	Gravel or slag	×	×	
154	15	A	3	3	Asphalt felt	3-15	Asphalt	Gravel or slag			×
200	20	A	6	4	Asbestos	1-60 3-15	Bonded asphalt	Bonded asphalt	×		
201	20	A	6	3	Asbestos	1-60 2-15	Bonded asphalt	Bonded asphalt		×	×
202	20	A	2	5	Tarred felt	5-15	Coal tar pitch	Gravel or slag	×	×	
203	20	A	1	4	Tarred felt	4-15	Coal tar pitch	Gravel or slag			×
204	20	A	3	5	Asphalt felt	5-15	Asphalt	Gravel or slag	×	×	
205	20	A	3	4	Asphalt felt	4-15	Asphalt	Gravel or slag			×
206	20	A	1	5	Tarred felt	5-15	Coal tar pitch	Promenade tile	Concrete only		

*For Steel Deck roofing see special conditions on last page of specifications.

There will be found on the following pages detailed Ruberoid Bonded Built-up Roof specifications. Should supplementary information be desired, or should there be a roofing

problem resulting from unusual conditions, our Engineering Department is always glad to be of help. Simply write or phone any of the offices listed below.

OFFICES OF THE RUBEROID CO.

BALTIMORE, MD., Highlandtown P. O. Box 102
CHICAGO, ILL., 5333 South Western Avenue
ERIE, PA., P. O. Box 494-495

MILLIS, MASS.
MOBILE, ALA., P. O. Box 1567
NEW YORK, N. Y., 95 Madison Avenue

ASBESTOS FELT AND ASPHALT FELT, SMOOTH FINISH ROOF

For Use Over Board Sheathing

For Inclines Not Exceeding 6-In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 100—10-YEAR BOND

Underwriters' Laboratories Class B Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 10-year Guaranty Bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Bond Roofing Asphalt.

Asphalt Felt—Ruberoid No. 30 Asphalt Felt.

Asbestos Felt—Ruberoid No. 15 Asphalt-saturated Asbestos Felt.

Work by Others

The roof deck must be constructed of seasoned lumber, dressed on upper side, dry and free from large cracks and knot holes. Roof boards must be securely nailed in place, leaving no nail heads above the wood surfaces. Surfaces must be properly graded to outlets and cant strips provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the board surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one ply of Asphalt Felt, lapping sheets 2-in. at edges and not less than 6-in. at end laps. Seal the laps with asphalt cement and nail at 3-in. intervals along the lap and at 18-in. intervals along lines 10-in. from each edge of each sheet, the latter nails being staggered. This felt shall be turned up not less than 4-in. along all walls and vertical surfaces.

Second—Over the entire surface lay two plies of Asbestos Felt, embedding each sheet in Asphalt, lapping each sheet 17-in. over the preceding one and rolling each sheet immediately behind the mop to insure proper adhesion of all strips. Mopping and rolling shall be so done as to secure a continuous bed of asphalt, of uniform thickness. In no place shall felt touch felt. Each

sheet shall be nailed along the back edge only from 3-in. to 6-in. down, at intervals of approximately 9-in. These felts shall be cut off at the angle of the roof deck and all vertical surfaces.

Third—Over the entire surface mop a uniform coating of Asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roofing:

One ply Ruberoid No. 30 Asphalt Felt.....	31 lb.
Two plies Ruberoid No. 15 Saturated Asbestos Felt..	32 lb.
Ruberoid Bond Roofing Asphalt.....	75 lb.
Simplex nails.....	2 lb.

Total approximate weight, 100 sq. ft.....140 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. Asphalt shall not be heated to exceed 450° F.

All nailing of roofing to board surfaces shall be done with Simplex flat head roofing nails or with 7/8-in. galvanized roofing nails, driven through flat tin discs.

All roofing work shall be done to the satisfaction and approval of the manufacturer.

General Notes

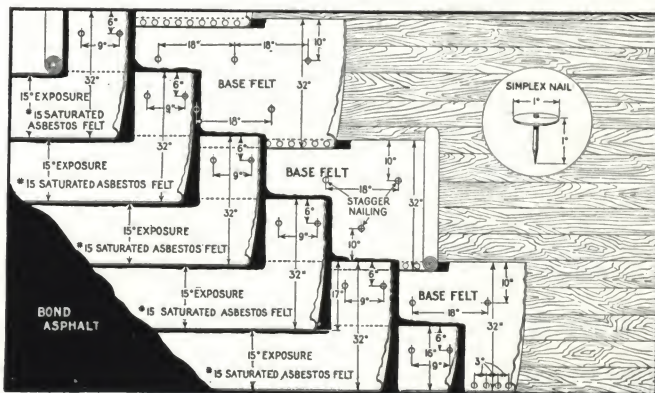
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provision must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bonds

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 10 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASBESTOS FELT AND ASPHALT FELT, SMOOTH FINISH ROOF

**For Use Over Poured Concrete, Poured Gypsum, Gypsum Block,
Precast Concrete Tile or Book Tile**

For Inclines Not Exceeding 6-In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 101—10-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 10-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Bond Roofing Asphalt.

Asphalt Felt—Ruberoid No. 30 Asphalt Felt.

Asbestos Felt—Ruberoid No. 15 Asphalt-saturated Asbestos Felt.

Primer—Ruberoid Concrete Primer.

Work by Others

The roof deck must be thoroughly dry, smooth and free from loose material, and must be properly graded to outlets.

For inclines exceeding 3-in. to the foot, if the deck is of concrete, wood nailing strips must be provided at proper intervals.

Coves shall be provided in the angle between the roof and the vertical surfaces.

Where Book Tile is used, the surface of the tile must be covered with portland cement mortar 1-in. thick with a smooth and even finish.

Where gypsum blocks are required for nailing, they must be solid blocks.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the base surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspection by the manufacturer.

Specifications for Laying Roofing

First—Coat the entire surface with Primer applied cold, allowing same to dry thoroughly. Where plastic material is used to caulk the joints of blocks, the coating of primer shall be held back 2-in. from all joints.

Second—Over the entire surface lay one ply of Asphalt Felt in Roofing Asphalt, lapping each sheet 2-in. over the preceding one at edges and not less than 6-in. at end laps. Roll each sheet immediately behind the mop to insure proper adhesion of all sheets. Mopping and rolling shall be so done as to secure a continuous bed of asphalt of uniform thickness. In no place shall felt touch felt or roof deck. Felts shall be cut off at the angle of the roof deck and all vertical surfaces.

On inclines exceeding 3-in. to the foot these sheets shall be nailed at intervals of 9-in. along the lap into the nailing strips.

Note: Where poured gypsum or precast gypsum blocks are used, all three plies of felt shall be nailed as specified in the case of board decks.

Third—Over the entire surface lay in asphalt two plies of Asbestos Felt, lapping each sheet 17-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot asphalt. In no place shall felt touch felt.

On inclines exceeding 3-in. to the foot, sheets shall be nailed at intervals of 12-in. along the nailing strips or back edge.

These felts shall be cut off at the angle of the roof deck and vertical surfaces.

Fourth—Over the entire surface mop a uniform coating of asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roofing:

Ruberoid Concrete Primer (1 gal.)	10 lb.
One ply Ruberoid No. 30 Asphalt Felt	31 lb.
Two plies Ruberoid No. 15 Asphalt-saturated Asbestos Felt	32 lb.
Ruberoid Bond Roofing Asphalt	110 lb.

Total approximate weight 100 sq. ft. 183 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. Asphalt shall not be heated to exceed 450° F.

All nailing or roofing shall be done with Simplex flat head roofing nails or with 1/8-in. galvanized roofing nails, driven through flat tin discs.

All roofing work shall be done to the satisfaction and approval of the manufacturer.

General Notes

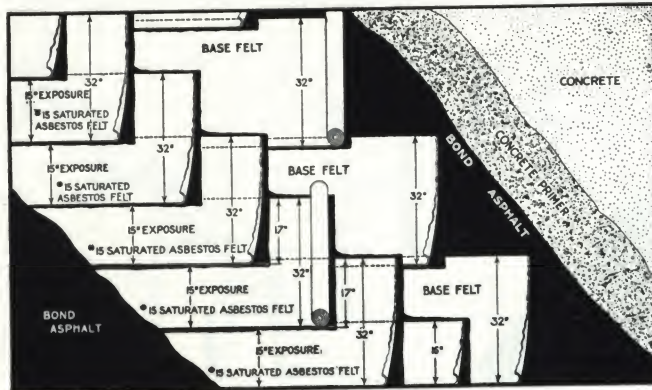
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, Etc.—Leader heads, vents and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 10 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASBESTOS AND ASPHALT MATERIALS, SMOOTH FINISH ROOF

For Use Over Board Sheathing

For Inclines Not Exceeding 6-In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 150—15-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Bond Roofing Asphalt.

Asbestos Base Felt—Ruberoid No. 60 Asbestos Base Felt.

Asbestos Felt—Ruberoid No. 15 Asphalt-saturated Asbestos Felt.

Work by Others

The roof deck must be constructed of seasoned lumber, dressed on upper side, dry and free from large cracks and knot holes. Roof boards must be securely nailed in place, leaving no nail heads above the wood surfaces. Surfaces must be properly graded to outlets, and cant strips provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one ply of Asbestos Base Felt, lapping each sheet 2-in. at edges and not less than 6-in. at end laps. Sealing the laps with asphalt cement and nail at 3-in. intervals along the lap, and also at intervals of 18-in. on a line 10-in. from each edge of the sheet, staggering the nails. This felt shall be turned up not less than 4-in. along all walls and vertical surfaces.

Second—Over the entire surface embed in Asphalt two plies of Asbestos Felt lapping each sheet 17-in. over the preceding one and rolling each sheet immediately behind the mop to insure a uniform coating of hot asphalt so that in no place shall felt touch felt. Each sheet shall be nailed along the back edge from 3 to

6-in. down at intervals of approximately 9-in. These felts shall be cut off at the angle of the roof deck and all walls or vertical surfaces.

Third—Over the entire surface mop a uniform coating of Asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roofing:

One ply Ruberoid No. 60 Asbestos Base Felt.....	60 lb.
Two plies Ruberoid No. 15 Asphalt-saturated Asbestos Felt	32 lb.
Ruberoid Bond Roofing Asphalt.....	75 lb.
Simplex Nails	2 lb.

Total approximate weight 100 sq. ft.....169 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. Asphalt shall not be heated to exceed 450° F.

All nailing of roofing to board surfaces shall be done with Simplex flat head roofing nails or with 7/8-in. galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

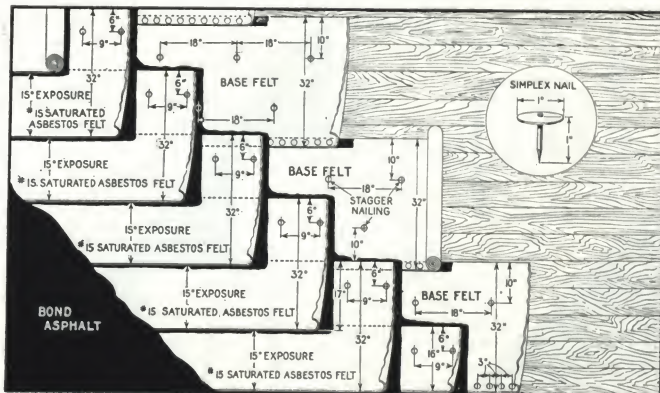
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 15 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

For Use Over Board Sheathing and Precast Gypsum Blocks

For Inclines Not Exceeding 2-In. per Ft.

SPECIFICATION NO. 151—15-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

If over boards, the roof deck shall be constructed of seasoned lumber, smooth and securely nailed, and free from large cracks or knot holes. It shall be properly graded to outlets and swept clean and free from all loose material.

Where gypsum blocks are required for nailing they must be solid blocks.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one thickness of sheathing paper, weighing not less than 5 lb. per 100 sq. ft., lapping the sheets at least 1-in. If Precast Gypsum Block is used, sheathing paper may be omitted.

Second—Over the entire surface lay two plies of Tarred Felt, lapping each sheet 17-in. over the preceding one, and turning up these felts not less than 4-in. along all vertical surfaces. Nail as often as is necessary to secure, until the remaining felt is laid.

Third—Coat the entire surface uniformly with Coal Tar Pitch.

Fourth—Over the entire surface lay two plies of Tarred Felt, lapping each sheet 17-in. over the preceding one, mopping with Coal Tar Pitch the full 17-in. on each sheet, so that in no place shall felt touch felt. The back edge of each sheet shall be nailed at intervals of 24-in. at a distance not greater than 6-in. from back edge of sheet. Such nailing as is necessary shall be done so that all nails are covered by not less

than one ply of felt. The felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Fifth—Over the entire surface pour a uniform coating of Coal Tar pitch into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag for each 100 sq. ft. The gravel or slag shall be $\frac{1}{4}$ -in. to $\frac{3}{4}$ -in. in size, dry and free from dirt. If the roof is applied during cold weather, or the slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One-layer Sheathing Paper.....	5 lb.
Four plies Ruberoid No. 15 Tarred Felt.....	65 lb.
Ruberoid Coal Tar Pitch.....	125 lb.
Simplex nails.....	1 lb.
Roofing gravel.....	400 lb.
or	
Roofing slag.....	300 lb.

Total approximate weight... { gravel surface.....596 lb.
slag surface.....496 lb.

Felt shall be laid without wrinkles or buckles. Pitch shall not be heated to exceed 400° F.

All nailing of roofing shall be done with Simplex flat head roofing nails or with $\frac{7}{8}$ -in. galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

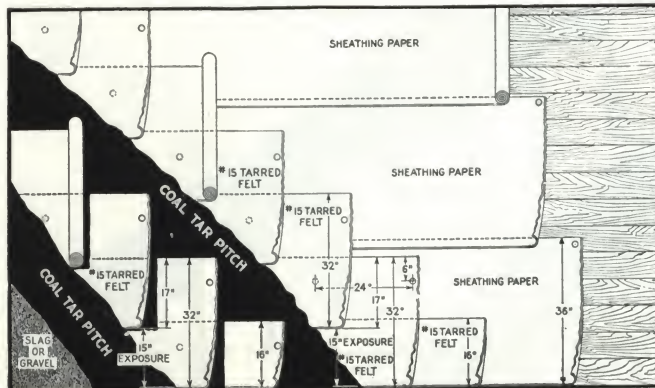
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs, and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 15 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

**For Use Over Poured Concrete, Poured Gypsum, Precast Concrete
Tile or Book Tile**

For Inclines Not Exceeding 1-In. per Ft.

SPECIFICATION NO. 152—15-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

The roof deck shall be thoroughly dry, smooth and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with smooth and even finish.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspection by the manufacturer.

Specifications for Laying Roofing

First—Coat the deck uniformly with Coal Tar Pitch. If Precast Concrete Tile is used, the surface shall be spot or strip mopped.

Second—Over the entire surface lay three plies of Tarred Felt lapping each sheet 22-in. over the preceding one and mopping with Coal Tar Pitch the full 22-in. on each sheet so that in no place shall felt touch felt. The felt shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface pour a uniform coating of Coal Tar Pitch into

which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag for each 100 sq. ft. The gravel or slag shall be from ¼-in. to ¾-in. in size, dry and free from dirt. If the roof is applied during cold weather, or slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Three plies Ruberoid No. 15 Tarred Felt..... 50 lb.

Ruberoid Coal Tar Pitch.....175 lb.

Roof gravel400 lb.

or

Roofing Slag300 lb.

Total approximate weight.. { gravel surface....625 lb.
slag surface.....525 lb.

All felt shall be laid without wrinkles or buckles. Pitch shall not be heated to exceed 400° F.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

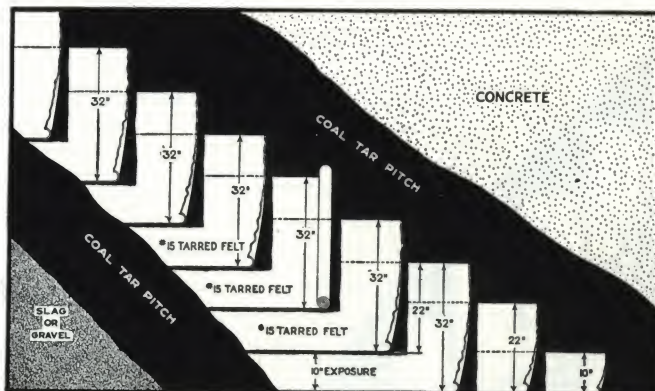
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, Etc.—Leader heads, vents and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 15 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG FINISH ROOF

For Use Over Board Sheathing and Precast Gypsum Block

For Inclines Not Exceeding 4-In. per Ft.

SPECIFICATION NO. 153—15-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of The Ruberoid Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Roofing Asphalt.

Asphalt Felt—Ruberoid No. 15 Asphalt Felt.

Work by Others

If over boards, the roof deck shall be constructed of seasoned lumber, smooth and securely nailed, and free from large cracks or knot holes. It shall be properly graded to outlets and swept clean and free from all loose material.

Where gypsum blocks are required for nailing they must be solid blocks.

General Requirements Applying to the Contractor

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Over the entire surface lay two plies of Asphalt Felt, lapping each sheet 17-in. over the preceding one and turning these felts up not less than 4-in. along all vertical surfaces. Nail as often as is necessary to secure, until the remaining felt is laid.

Second—Over the entire surface embed in Asphalt two plies of Asphalt Felt, lapping each sheet 17-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot Asphalt so that in no place shall felt touch felt. Each sheet shall be nailed 6-in. from the back edge at intervals of 24-in. These felts shall be cut off at the angle of the roof deck and all walls or vertical surfaces.

Third—Over the entire surface spread a uniform coating of Asphalt into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag per 100 sq. ft. Gravel or

slag must be approximately $\frac{1}{4}$ -in. to $\frac{5}{8}$ -in. in size, dry and free from dirt. If roof is applied during cold weather, or slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Four plies Ruberoid No. 15 Asphalt Felt.....	62 lb.
Ruberoid Roofing Asphalt.....	100 lb.
Simplex nails	1 lb.
Roofing gravel	400 lb.
or	
Roofing slag	300 lb.

Total approximate weight { gravel surface 563 lb.
slag surface 463 lb.

Felt shall be laid without wrinkles or buckles. Asphalt shall not be heated to exceed 450° F.

All nailing of roofing shall be done with Simplex flat head roofing nails or with $\frac{7}{8}$ -in. galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

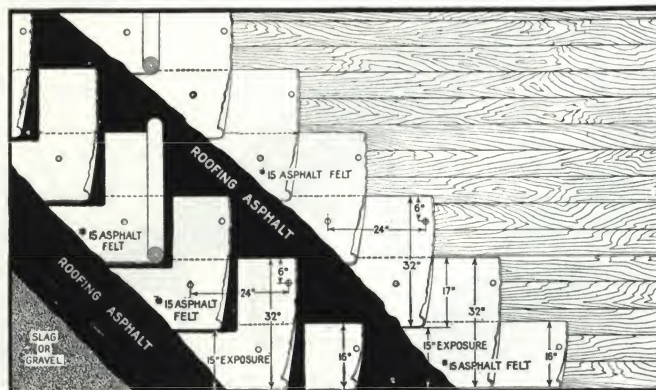
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connection with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 15 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG FINISH ROOF

**For Use Over Poured Concrete, Poured Gypsum, Precast Concrete
Tile or Book Tile**

For Inclines Not Exceeding 3-In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 154—15-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 15-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Roofing Asphalt.

Asphalt Felt—Ruberoid No. 15 Asphalt Felt.

Concrete Primer—Ruberoid Concrete Primer.

Work by Others

The roof deck shall be thoroughly dry, smooth and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with smooth and even finish.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the entire surface with Concrete Primer applied cold and allow same to dry thoroughly. Where plastic material is used to caulk the joints of the blocks, the coating of primer shall be held back 2-in. from all joints.

Second—Over the entire surface embed in Asphalt three plies of Asphalt Felt, lapping each sheet 22-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot Asphalt, so that in no place shall felt touch felt. All felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface spread a uniform coating

of Asphalt into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag per 100 sq. ft. Gravel or slag must be approximately $\frac{1}{4}$ in. to $\frac{5}{8}$ in. in size, thoroughly dry and free from dust or foreign matter. If roof is applied during cold weather, or the slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Ruberoid Concrete Primer (1 gal.)	10 lb.
Three plies Ruberoid No. 15 Asphalt Felt	47 lb.
Ruberoid Roofing Asphalt	125 lb.
Roofing gravel	400 lb.
or	
Roofing slag	300 lb.

Total approximate weight... { gravel surface 582 lb.
slag surface 482 lb.

The felt shall be laid without wrinkles or buckles, and the asphalt shall not be heated to exceed 450° F.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

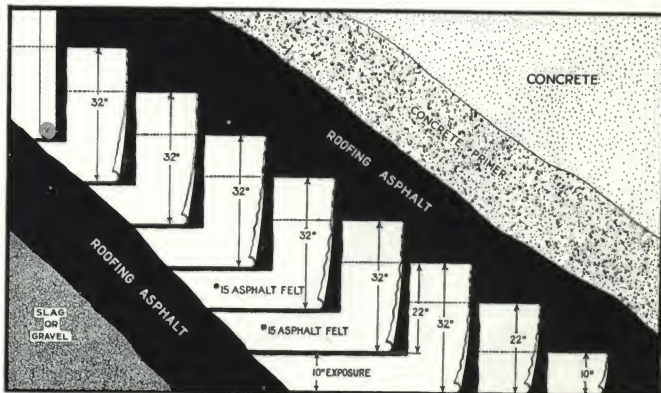
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet wall, curbs and other openings.

Note 2—Leader Heads, Vents, Etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 15 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASBESTOS AND ASPHALT MATERIALS, SMOOTH FINISH ROOF

For Use Over Board Sheathing

For Inclines Not Exceeding 6-In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 200—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Bond Roofing Asphalt.

Asbestos Base Felt—Ruberoid No. 60 Asbestos Base Felt.

Asbestos Felt—Ruberoid No. 15 Asphalt-saturated Asbestos Felt.

Work by Others

The roof deck must be constructed of seasoned lumber, dressed on upper side, dry and free from large cracks and knot holes. Roof boards must be securely nailed in place, leaving no nail heads above the wood surfaces. Surfaces must be properly graded to outlets, and cant strips provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Lay one ply of Asbestos Base Felt, lapping each sheet 2-in. at edges and not less than 6-in. at end laps. Seal the laps with Asphalt cement, and nail at 3-in. intervals along the lap, turning this sheet up not less than 4-in. along all vertical surfaces.

Second—Over the entire surface embed in Asphalt three plies of Asbestos Felt, lapping each sheet 22-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot Asphalt so that in no place shall felt touch felt. Each sheet shall be nailed along the back edge from 3 to 6-in. down at intervals of approximately

9-in. These felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface mop a uniform coating of Asphalt using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One ply Ruberoid No. 60 Asbestos Base Felt.....	60 lb.
Three plies Ruberoid No. 15 Asphalt-saturated Asbestos Felt	48 lb.
Ruberoid Bond Roofing Asphalt.....	95 lb.
Simplex nails	2 lb.

Total approximate weight per 100 sq. ft.....205 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly embedded by brooming the felt. The Asphalt shall not be heated to exceed 450° F.

All nailing of roofing to board surfaces shall be done with Simplex flat head roofing nails or with 7/8-in. galvanized roofing nails driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

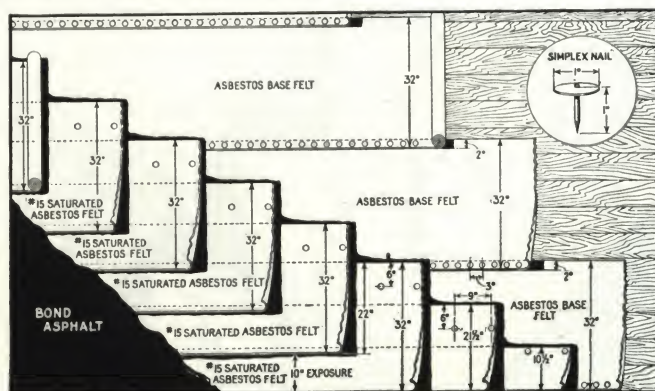
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, Etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASBESTOS AND ASPHALT MATERIALS, SMOOTH FINISH ROOF

For Use Over Poured Concrete, Poured Gypsum, Gypsum Block, Precast Concrete Tile or Book Tile

For Inclines Not Exceeding 6-In. per Ft. (Not to Be Used on True Level Decks)

SPECIFICATION NO. 201—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Bond Roofing Asphalt.

Asbestos Base Felt—Ruberoid No. 60 Asbestos Base Felt.

Asbestos Felt—Ruberoid No. 15 Asphalt-saturated Asbestos Felt.

Concrete Primer—Ruberoid Concrete Primer.

Work by Others

The roof deck shall be thoroughly dry, smooth and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with a smooth and even finish.

Where poured gypsum or precast gypsum blocks are used, all felt shall be nailed as required when the roof deck is of boards. Gypsum blocks for nailing must be solid blocks.

For inclines exceeding 3-in. to the foot, if the deck is of concrete wooden nailing strips must be provided at proper intervals.

Cant strips shall be provided in the angle formed between the roof and vertical surfaces.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the entire surface with Concrete Primer applied cold and allow same to dry thoroughly. Where plastic material is used to caulk the joints of blocks, the coating of primer shall be held back 2-in. from all joints.

Second—Over the entire surface embed in Asphalt one ply of Asbestos Base Felt lapping each sheet 2-in. over the preceding one at edges and not less than 6-in. at end laps. Mop between the laps and nail at intervals of 12-in. along the laps into the nailing strip. All felts shall be cut off at the angle of the roof deck and all walls or vertical surfaces.

Third—Over the entire

surface embed in Asphalt two plies of Asbestos Felt, lapping each sheet 17-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot asphalt so that in no place shall felt touch felt.

On inclines exceeding 3-in. to the foot, these sheets shall be nailed 6-in. from the back edge at intervals of 24-in. All felts shall be cut off at the angle of the roof deck and all walls or vertical surfaces.

Fourth—Over the entire surface mop a uniform coating of Asphalt, using not more than 20 lb. per 100 sq. ft.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Ruberoid Concrete Primer (1 gal.)	10 lb.
One ply Ruberoid No. 60 Asbestos Base Felt	60 lb.
Two plies Ruberoid No. 15 Asphalt-saturated Asbestos Felt	32 lb.
Ruberoid Bond Roofing Asphalt	110 lb.

Total approximate weight per 100 sq. ft. 212 lb.

Felt shall be laid without wrinkles or buckles. It shall be rolled immediately behind the hot mop and firmly imbedded by brooming the felt.

All nailing of roofing to roof surfaces shall be done with Simplex flat head roofing nails or with 7/8-in. galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

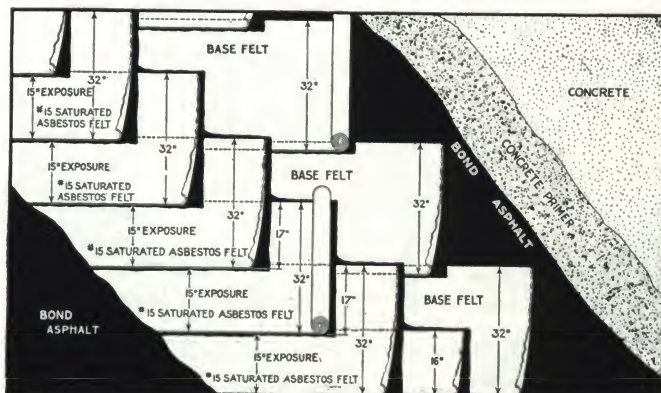
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

For Use Over Board Sheathing and Precast Gypsum Blocks

For Inclines Not Exceeding 2-In. per Ft.

SPECIFICATION NO. 202—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows.

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

If over boards, the roof deck shall be constructed of seasoned lumber, smooth and securely nailed, and free from large cracks or knot holes. It shall be properly graded to outlets and swept clean and free from all loose material.

Where gypsum blocks are required for nailing they must be solid.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspection by the manufacturer.

Specifications for Laying Roofing

First—Lay one thickness of sheathing paper, weighing not less than 5 lb. per 100 sq. ft., lapping the sheets at least 1-in. If Precast Gypsum Block is used, sheathing paper may be omitted.

Second—Over the entire surface lay two plies of Tarred Felt, lapping each sheet 17-in. over the preceding one and nailing as often as is necessary to secure, until the remaining felt is laid. These felts shall be turned up not less than 4-in. along all walls or vertical surfaces.

Third—Coat the entire surface uniformly with Coal Tar Pitch.

Fourth—Over the entire surface lay three plies of Tarred Felt, lapping each sheet 22-in. over the preceding one, mopping with Coal Tar Pitch the full 22-in. on each sheet, so that in no place shall felt touch felt. The back edge of the sheet shall be nailed at intervals of 24-in. at a distance not greater than 6-in. from the back edge of the sheet. Such nailing as is necessary shall be done so that all nails are covered by not less than two plies of felt. These felts shall be cut

off at the angle of the roof deck and walls or vertical surfaces.

Fifth—Over the entire surface pour a uniform coating of Coal Tar Pitch into which, while hot, embed not less than 400 lb. of gravel or 300 lb. of slag for each 100 sq. ft. The gravel or slag shall be $\frac{1}{4}$ -in. to $\frac{5}{8}$ -in. in size, dry and free from dirt. If the roof is applied during cold weather or slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

One layer Sheathing Paper.....	5 lb.
Five plies Ruberoid No. 15 Tarred Felt.....	80 lb.
Ruberoid Coal Tar Pitch.....	150 lb.
Simplex nails	2 lb.
Roofing gravel	400 lb.
or	
Roofing slag	300 lb.

Total approximate weight { gravel surface637 lb.
slag surface537 lb.

The felt shall be laid without wrinkles or buckles, and the pitch shall not be heated to exceed 400° F.

All nailing of roofing shall be done with Simplex flat head roofing nails or with $\frac{7}{8}$ -in. galvanized roofing nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

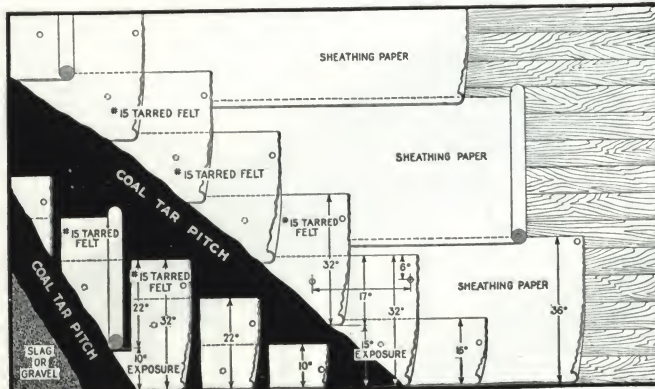
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH ROOF

**For Use Over Poured Concrete, Poured Gypsum, Precast Concrete
Tile or Book Tile**

For Inclines Not Exceeding 1-In. per Ft.

SPECIFICATION NO. 203—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

The roof deck shall be thoroughly dry, smooth and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with a smooth and even finish.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the roof deck uniformly with Coal Tar Pitch. If Precast Concrete Tile is used, the surface shall be spot or strip mopped.

Second—Over the entire surface lay four plies of Tarred Felt, lapping each sheet 24½-in. over the preceding one and mopping with Coal Tar Pitch the full 24½-in. on each sheet so that in no place shall felt touch felt. These felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface pour a uniform coating of Coal Tar Pitch into which, while hot, embed not less than

400 lb. of gravel or 300 lb. of slag for each 100 sq. ft. The gravel or slag shall be from ¼-in. to ⅝-in. in size, dry and free from dirt. If the roof is applied during cold weather, or slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Four plies Ruberoid No. 15 Tarred Felt.....	65 lb.
Ruberoid Coal Tar Pitch.....	200 lb.
Roofing Gravel	400 lb.
or	
Roofing Slag	300 lb.

Total approximate weight { gravel surface 665 lb.
slag surface 565 lb.

The felt shall be laid without wrinkles or buckles, and the pitch shall not be heated to exceed 400° F.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

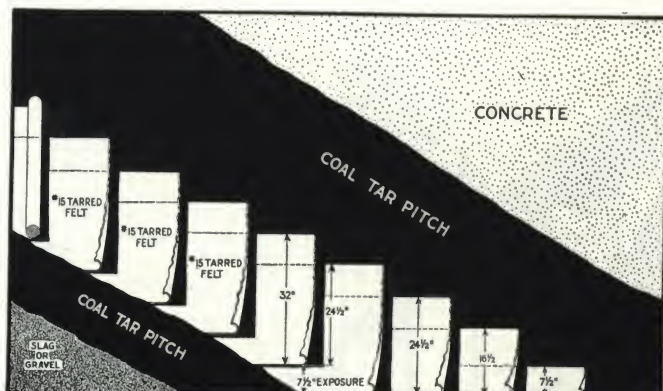
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scupper, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG FINISH ROOF

For Use Over Board Sheathing and Precast Gypsum Block

For Inclines Not Exceeding 3-In. per Ft.

SPECIFICATION NO. 204—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID CO., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Asphalt—Ruberoid Roofing Asphalt.

Asphalt Felt—Ruberoid No. 15 Asphalt Felt.

Work by Others

If over boards, the roof deck shall be constructed of seasoned lumber, smooth, and securely nailed, and free from large cracks or knot holes. It shall be properly graded to outlets and swept clean and free from all loose material. Where gypsum blocks are required for nailing, they must be solid blocks.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer.

The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Over the entire surface lay two plies of Asphalt Felt, lapping each sheet 17-in. over the preceding one and nailing as often as is necessary to secure, until the remaining felt is laid. These felts shall be turned up not less than 4-in. along all walls and vertical surfaces.

Second—Over the entire surface embed in Asphalt three plies of Asphalt Felt, lapping each sheet 22-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot Asphalt, so that in no place shall felt touch felt. Each sheet shall be nailed along the back edge at intervals of 24-in. These felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface spread a uniform coating of Asphalt into which, while hot, embed not less than 400 lb. of gravel, or 300 lb. of slag per 100 sq. ft. Gravel or slag must be approximately 1/4-in.

to 5/8-in. in size, thoroughly dry and free from dust or foreign matter. If roof is applied during cold weather, or the slag or gravel is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Five plies Ruberoid No. 15 Asphalt Felt.....	78 lb.
Ruberoid Roofing Asphalt.....	125 lb.
Simplex nails	2 lb.
Roofing Gravel	400 lb.
or	
Roofing Slag	300 lb.

Total approximate weight... { gravel surface ... 605 lb.
slag surface 505 lb.

Felt shall be laid without wrinkles or buckles. Asphalt shall not be heated to exceed 450° F.

All nailing of roofing to board surfaces shall be done with Simplex flat head roofing nails or with 7/8-in. galvanized nails, driven through flat tin discs.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

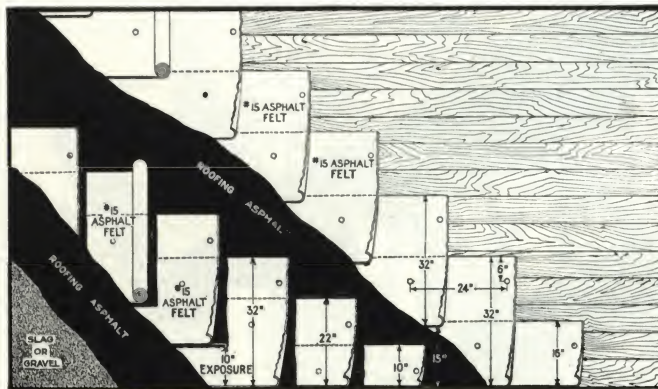
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads vents, and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG FINISH ROOF

**For Use Over Poured Concrete, Poured Gypsum, Precast Concrete
Tile or Book Tile**

For Inclines Not Exceeding 3-In. per Ft.

SPECIFICATION NO. 205—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Concrete Primer—Ruberoid Concrete Primer.

Asphalt Felt—Ruberoid No. 15 Asphalt Felt.

Asphalt—Ruberoid Roofing Asphalt.

Work by Others

The roof deck shall be thoroughly dry, smooth, and free from loose material, and properly graded to outlets.

Where Book Tile is used the surface of the tile shall be covered with portland cement mortar 1-in. thick with a smooth and even finish.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer. The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects, reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surfaces shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspections by the manufacturer.

Specifications for Laying Roofing

First—Coat the entire surface with Concrete Primer applied cold and allow same to dry thoroughly. Where plastic material is used to caulk the joints of blocks, the coating of primer shall be held back 2-in. from all joints.

Second—Over the entire surface embed in Asphalt four plies of Asphalt Felt, lapping each sheet 24½-in. over the preceding one, rolling each sheet immediately behind the mop to insure a uniform coating of hot asphalt so that in no place shall felt touch felt. All felts shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Over the entire surface spread a uniform coating of Asphalt into which,

while hot, embed not less than 400 lb. of gravel or 300 lb. of slag per 100 sq. ft. Gravel or slag must be approximately ¼-in. to ⅝-in. in size, thoroughly dry and free from dust or foreign matter. If roof is applied during cold weather, or gravel or slag is damp, it shall be heated and dried immediately before application.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Ruberoid Concrete Primer (1 gal.)	10 lb.
Four plies Ruberoid No. 15 Asphalt Felt	62 lb.
Ruberoid Roofing Asphalt	150 lb.
Roofing Gravel	400 lb.
or	
Roofing Slag	300 lb.

Total approximate weight.. { Gravel surface....622 lb.
Slag surface.....522 lb.

Felt shall be laid without wrinkles or buckles, and the asphalt shall not be heated to exceed 450° F.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

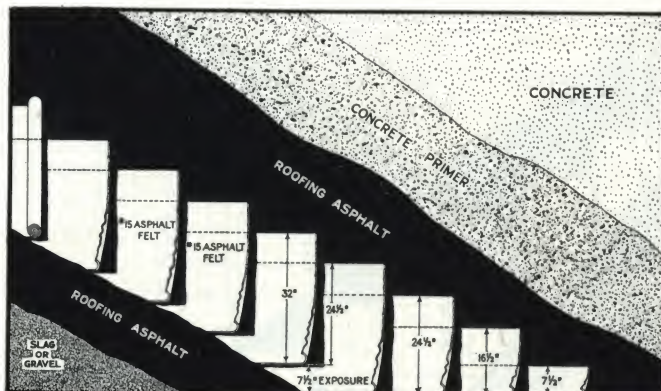
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs, and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges of scuppers, gutters, gravel guards, finishing or edging strips, leader heads, and vents shall be set on top of all felts, nailed and double felt striped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



COAL TAR PITCH AND TARRED FELT ROOF

For Use Over Concrete Under Promenade Tile

For Inclines Not Exceeding 1-In. per Ft.

SPECIFICATION NO. 206—20-YEAR BOND

Underwriters' Laboratories Class A Rating

The roofing shall be a Ruberoid Bonded Roof carrying a 20-year guaranty bond, installed in accordance with conditions and specifications as hereinafter set forth.

Definitions

Unless otherwise specifically stated in any case, the terms hereunder listed shall be construed in accordance with definitions as follows:

Manufacturer—Ruberoid Mills division of THE RUBEROID Co., whose main office is at No. 95 Madison Avenue, New York, N. Y.

Contractor—The contractor for roofing work.

Tarred Felt—Ruberoid No. 15 Tarred Felt.

Coal Tar Pitch—Ruberoid Coal Tar Pitch.

Work by Others

The roof deck shall be thoroughly dry, smooth, and free from loose material, and properly graded to outlets.

General Requirements Applying to the Contractor

The contractor must be approved by the manufacturer. The contractor shall inspect the roof surfaces and shall not proceed with roofing work until all defects reasonably apparent by proper inspection and which might injure the roofing, have been remedied by others. The contractor assumes responsibility for existing under-surfaces as to their fitness to receive roofing when he proceeds with his work.

Roof surface shall be swept clean and free of all loose material before proceeding with roofing work.

The contractor shall afford all necessary facilities for inspection by the manufacturer.

Specifications for Laying Roofing

First—Coat the roof deck uniformly with Coal Tar Pitch.

Second—Over the entire surface lay two plies of Tarred Felt, lapping each sheet 17-in. over the preceding one and mopping with Coal Tar Pitch the full 17-in. on each sheet so that in no place shall felt touch felt. Felt shall be cut off at the angle of the roof deck and walls or vertical surfaces.

Third—Coat the entire surface uniformly with Coal Tar Pitch.

Fourth—Over the entire surface lay two plies of Tarred Felt, lapping each sheet 17-in. over the preceding one and mopping with Coal Tar Pitch the full 17-in. on each sheet so that in no place shall felt touch felt.

Fifth—Before laying the tile, thoroughly sweep the surface of the roof and apply a uniform mopping of Coal Tar Pitch in to which, while hot, lay one ply of Tarred Felt, lapping each sheet 2-in. over the preceding one. Immediately before laying the tile, cover this surface with a uniform mopping of Coal Tar Pitch. No more roof surface shall be covered with this last

ply of felt and mopping of pitch than is to be covered at the same time with tile.

Sixth—Over the roofing thus laid apply approximately $\frac{3}{4}$ -in. of portland cement mortar (1 to 3 mix). No more mortar shall be applied at one time than is to be immediately covered with the tile. Into this mortar bed lay Promenade Tile of Vitrified clay or slate as selected and approved by the architect, setting them to show $\frac{1}{4}$ -in. joints. These joints shall be grouted full with portland cement mortar (1 to 2 mix). Expansion joints approximately $\frac{3}{4}$ -in. wide and filled with a plastic material (as approved by the architect) shall be provided between the Promenade Tile and all flashings, and additional expansion joints shall be provided throughout the roof surface as may be necessary to take care of expansion. All expansion joints shall extend through the mortar bed to the top sheet of waterproofing.

Materials and Workmanship

Not less than the following quantities of materials shall be used in constructing each 100 sq. ft. of roof area:

Five plies of Ruberoid No. 15 Tarred Felt..... 80 lb.
Ruberoid Coal Tar Pitch..... 225 lb.

Total approximate weight 305 lb.

The felt shall be laid without wrinkles or buckles, and the pitch shall not be heated to exceed 400° F.

All roofing shall be done to the satisfaction and approval of the manufacturer.

General Notes

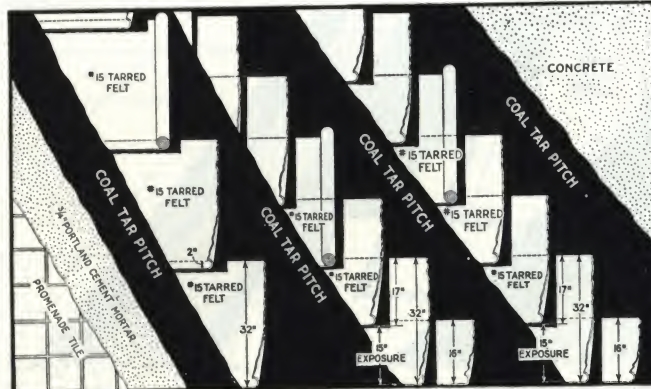
Note 1—Insulated Roofs—If this roof is applied over insulating material, the insulation must be firm, capable of withstanding traffic without crushing, and of a type that will retain nails. Provisions must be made that no more insulation shall be laid at one time than can be promptly protected by roofing in the event of sudden weather changes. A felt cut-off shall be mopped along the edge of insulation at a distance of not greater than one width of the insulating material from parapet walls, curbs and other openings.

Note 2—Leader Heads, Vents, etc.—Leader heads, vents and other openings shall be furnished with metal flanges of sufficient width to permit proper connections with the roofing. If not so furnished an exception of responsibility will be taken for any leaks which may develop immediately adjacent. Flanges or scuppers, gutters, gravel guards, finishing or edging strips, leader heads and vents shall be set on top of all felts, nailed and double felt stripped.

Bond

This contractor shall furnish the Manufacturer's Surety Bond Guaranty as issued by the National Surety Company of New York, N. Y., covering a period of 20 years from date of completion of the work.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



RUBEROID BONDED ROOFS

Over Steel Decks

Including Any of the Following:

ASBESTOS FELT AND ASPHALT FELT, SMOOTH FINISH
SPECIFICATION NO. 101—10-YEAR BOND

COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH
SPECIFICATION NO. 152—15-YEAR BOND

ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG FINISH
SPECIFICATION NO. 154—15-YEAR BOND

ASBESTOS AND ASPHALT MATERIALS, SMOOTH FINISH
SPECIFICATION NO. 201—20-YEAR BOND

COAL TAR PITCH AND TARRED FELT, GRAVEL OR SLAG FINISH
SPECIFICATION NO. 203—20-YEAR BOND

ASPHALT FELT AND ASPHALT, GRAVEL OR SLAG FINISH
SPECIFICATION NO. 205—20-YEAR BOND

Any of the above types of roofing may be laid over steel decks, subject to conditions as hereinafter stipulated.

Steel Decks for Roofs of Buildings—The steel deck must be overlaid with a proper insulating material which is firm, capable of withstanding traffic without crushing and of a type and thickness that will retain nails.

If the incline is under 2-in. to the foot, the insulating material may be secured to the deck

by mopping it in with a high melting point asphalt.

If the incline is over 2-in. to the foot, the insulating material must be secured in place by sheet metal screws, clips or other satisfactory device.

Steel Decks for Roofs over Open Sheds, etc.—Provided that a Pitch, Felt and Gravel Roof is not used and the incline does not exceed 1/2-in. per foot the insulation may be omitted on steel decks for roofs over such open structures as loading platforms, train sheds, etc.

Specifications

The specifications for the form of roofing which may be selected from the above list of types shall be the same as that hereinbefore set forth

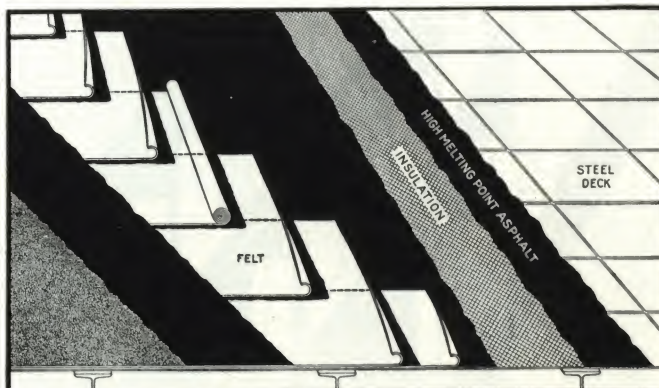
under the respective specification number stipulated.

Note: It will be observed that these specifications are for use over concrete in each case.

Bond

Subject to the above conditions THE RUBEROID CO. will furnish its surety bond guaranty as issued by the National Surety Co. of New York for any of the above types of roofing and for the period which applies to each type respectively.

Note: This guarantee is not given on jobs of less than 50 squares, nor in such portions of the United States as are not covered by the Manufacturer's Inspection Service.



REPRESENTATIVE LIST OF LARGE BUILT-UP ROOFING INSTALLATIONS

Applied on Prominent Buildings Throughout the Country

OWNER AND ADDRESS	NUMBER OF SQUARES	KIND OF FELT	ARCHITECT	ROOFER
General Motors Co., Pontiac, Mich.	12000	Asphalt	Austin Co., Chicago	Michigan Roofing Co.
Caterpillar Tractor Co., Peoria, Ill.	8500	Tarred and Asphalt	Austin Co., Chicago	J. W. Bushell Co.
Dodge Bros. Co., Detroit, Mich.	6700	Asphalt	Albert Kahn, Detroit	C. R. Woolensack Corp.
Ford River Rouge Plant, Detroit, Mich.	5200	Asphalt	Albert Kahn, Detroit	John D. Busch & Sons, Inc.
Hall Printing Co., Chicago, Ill.	5000	Asbestos	Weiss & Weistadt, Chicago	Luse-Stevenson Co.
Ford Motor Co., Hegewisch, Ill.	4000	Asphalt	Albert Kahn, Detroit	Chicago Roofing & Supply Co.
Ford Motor Co., Ironwood, Mich.	4000	Asphalt		Chicago Roofing & Supply Co.
Armour Leather Co., Williamsport, Pa.	3000	Asphalt	Company	W. E. Probst & Son
Chrysler Plymouth Plant, Detroit, Mich.	3000	Asphalt	Albert Kahn, Detroit	Schreiber Roofing Co.
Crane Co., Chicago, Ill.	3000	Asbestos	Graham, Anderson, Probst, & White, Chicago	Luse-Stevenson Co., also Wal- ter Johnson
National Plate Glass Co., Ottawa, Ill.	3000	Asbestos		Chicago Roofing & Supply Co.
Graham-Paige Co., Evansville, Ind.	2700	Asphalt		Graham Asbestos Co., Indianap- olis, Ind.
J. I. Case Co., Racine, Wis.	2500	Combination	Owners	T. M. Hughes Roofing Co.
Libby-Owens Glass Co., Detroit, Mich.	2500	Combination	Lockwood, Green & Co., Boston, Mass.	Schreiber Roofing Company
Merchandise Mart Building, Chicago, Ill.	2250	Asbestos	Graham, Anderson, Probst & White, Chicago	Esko Roofing Company
Armour Leather Co., Richwood, W. Va.	1320	Asphalt	Company Engineer	W. E. Probst & Son, Williams- port, Pa.
Libby-Owens Sheet Glass Co., Toledo, Ohio	1304	Asbestos	Company Engineer	John Voegli Co.
Belle City Malleable Iron Co., Racine, Wis.	1235	Asphalt	Owners	Hughes Roofing Co.
Standard Stoker Co., Erie, Pa.	1200	Asbestos		McCreary Roofing Co.
Chevrolet Motor Co., Flint, Mich.	1113	Asbestos	Wright & Nice Co., Flint, Mich.	Gillett Asbestos Company, Clevel- and, Ohio
Lycoming Mfg. Co., Williamsport, Pa.	1069	Asphalt	Company	W. E. Probst & Son
Mars, Inc., Chicago, Ill.	1069	Asphalt	Austin Co., Chicago	Chicago Roofing & Supply Co.
Atlantic Coast Line R. R., Montgomery, Ala.	1060	Asbestos	Company Engineers	C. H. Johnson
Standard Sanitary Mfg. Co., Tiffin, Ohio	1042	Asbestos	Geo. W. Netches	Gillett Asbestos Co., Cleveland, Ohio
Chevrolet Motor Co., Flint, Mich.	1000	Asphalt	Wright & Nice Co., Flint, Mich.	Schreiber Roofing Co., Detroit, Mich.
Cudahy Bros. Co., Cudahy, Wis.	1000	Asphalt	Owners	F. J. A. Christiansen, Milwaukee, Wis.
Ford Motor Co., River Rouge, Mich.	1000	Asphalt		Schreiber Roofing Co., Detroit, Mich.
Johnson Motors Co., Waukegan, Ill.	1000	Tarred	Austin Co.	Chicago Roofing & Supply Co.
Empire State Pickling Co., Phelps, N. Y.	900	Combination	Company Engineers	Finster Bros, Rome, N. Y.
International Harvester Co., Topeka, Kan.	900	Asphalt	Owners	Knickerbocker Roofing & Pav- ing Co., Chicago, Ill.
Armour Leather Co., Parsons, W. Va.	875	Asphalt	Company Engineers	W. E. Probst & Son, Williams- port, Pa.
C. M. & St. P. R. R., Milwaukee, Wis.	858	Tarred	Owners	J. F. Ege Roofing Co., Oskosh, Wis.
Allaphane Plant, Buffalo, N. Y.	794	Asbestos		Chicago Roofing & Supply Co.
Duncan Mills, Greenville, S. C.	686	Asbestos	J. E. Linine & Co.	Gillett Asbestos Co., Cleveland, Ohio
Michigan Car Shops, Detroit, Mich.	675	Asphalt	M. C. Ry. Co.	J. D. Candler Roofing Co.
Dunkirk Radiator Co., Dunkirk, N. Y.	650	Combination	Company Engineers	McCreary Roofing Co., Erie, Pa.
Susquehanna Silk Mills, Jersey Shore, Pa.	640	Asbestos		W. E. Probst & Son, Williams- port, Pa.
Academy High School, Erie, Pa.	600	Coal Tar	Myers & Johnson	McCreary Roofing Co.
Firestone Tire & Rubber Co., Akron, Ohio	544	Asbestos	Osborne Engineering Co., Cleveland, Ohio	Gillett Asbestos Co., Cleveland, Ohio
N. Y. C. R. R. Co., Collinwood, Ohio	490	Asbestos	Company Engineers	Byerlyte Co., Cleveland, Ohio
Curtiss Airport Corporation, Valley Stream, N. Y.	455	Asphalt	Kenneth Franzheim, New York, N. Y.	J. J. Fisher Co., Inc., Brooklyn, N. Y.
Curtiss Airport Corporation, Valley Stream, N. Y.	452½	Asphalt	Kenneth Franzheim, New York, N. Y.	Astoria Sheet Metal Works, As- toria, N. Y.
Truscon Steel Co., Youngstown, Ohio	436	Asbestos	Company Engineers	Gillett Asbestos Co., Cleveland, Ohio
U. S. Gypsum Co., Akron, Ohio	250	Asbestos		Chicago Roofing & Supply Co.
Reading Railroad Co., Reading, Pa.	450	Asbestos	Company	Benj. Foster Co., Philadelphia, Pa.
American Carbon Corp., Chicago, Ill.	600	Asphalt	Austin Co., Chicago	Chicago Roofing & Supply Co.
American League Ball Park, Chicago, Ill.	800	Asphalt	Osborn Engineering Co., Cleveland, Ohio	Jacobson Roofing Co.
Illinois National Guard Armory, Chi- cago, Ill.	700	Asbestos	Perkins, Chatham, Hammond, Chicago	Knauf & Weber
Civic Opera House, Chicago, Ill.	1200	Coal Tar and Asbestos	Graham, Anderson, Probst & White, Chicago	Chicago Roofing & Supply Co.
International Harvester Co., East Mol- ine, Ill.	600	Asphalt	Owner	Knickerbocker Roofing & Pav- ing Co., Chicago

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RU-BER-OID
BUILT-UP
ROOFS**

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